GBO TECHNOLOGY

S1080 IP Network Camera

Quick Reference Guide

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Touch Screen Users:

The instructions in this manual are written for regular personal computers. For touch screen computers, simply substitute the word "touch" for "click on" or "select".

1.0 CONFIGURE THE CAMERA FOR THE LENS TYPE

The two most commonly used types of lenses on the GBOT S1080 IP Network Camera are the manual iris lens and the DC Iris (direct control iris) lens. The factory-set default is for the manual iris lens.

If a **manual iris lens** is being used, the camera is pre-configured and requires no action.

If a **DC Iris lens** is being used, a DIP switch setting on the back of the camera needs to be changed.

At the back of the camera there are two DIP switches, #1 and #2. Flip DIP switch #1 into position 2 when using a DC Iris lens (as shown in Figure 1).

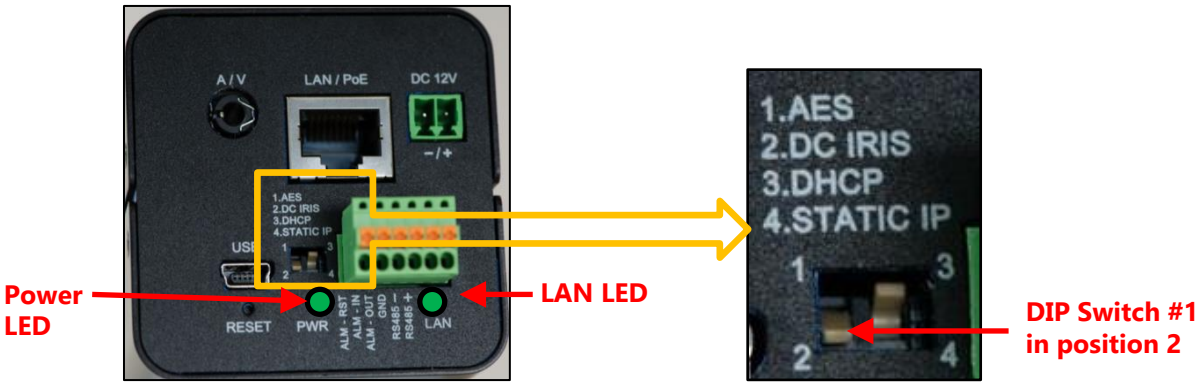

Figure 1 Back of Camera Showing DIP #1 in Position 2

2.0 INSTALL THE CAMERA FOR THE FIRST TIME

There are three ways to install the GBOT S1080 IP Network Camera:

(1) By connecting the camera directly to your personal computer (PC). See **Section 2.1, Camera Connected Directly to a Personal Computer**.

(2) By connecting the camera to a standalone Power-over Ethernet (POE) switch that is connected to your PC. See **Section 2.2, Standalone POE Switch Installation**.

(3) By connecting it to a network via a POE switch. See **Section 2.3, UPNP- and DHCP-Enabled Network** Installation.

2.1 Camera Connected Directly to a Personal Computer

These instructions describe how to use the **OnVIF Device Manager** application to interface with the camera's software with the camera connected directly to a standalone PC.

Step 1. Download "OnVIF Device Manager"

From the internet, download the **OnVIF Device Manager** application from http://sourceforge.net/projects/onvifdm/. After the application has down-loaded, the OnVIF icon displays on your desktop.

Step 2. Power On Standalone PC

Before connecting the camera, power-on the standalone PC, without the Ethernet cable connection, and second, ensure that the PC's Ethernet interface is configured to use DHCP to obtain an IP address automatically. See **Section, 2.4, Use DCHP to Obtain an IP Address Automatically**, for detailed information on required PC settings.

Step 3. Connect Camera to Your Computer

Using an Ethernet cable, connect one end of the cable to the LAN/POE slot in the back of the camera and the other end to your computer (see Figure 2).

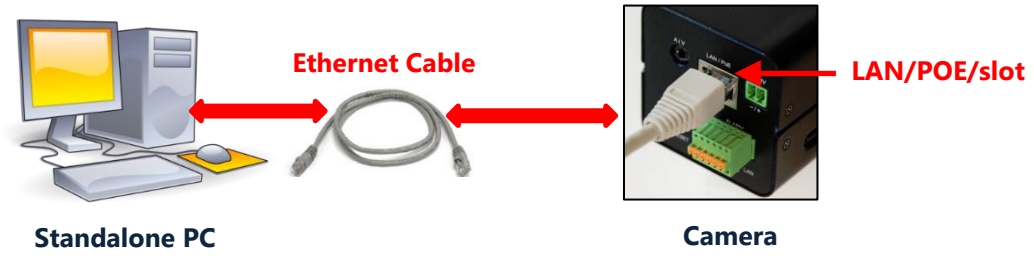

Figure 2 Camera Connected Directly to PC

Step 4. Power On Camera with DC Power Supply

1. Insert the connector end of the camera's power supply cable into the DC 12V receptacle located on the back of the camera. Plug the electrical end of the power supply cable into a power outlet.
2. Wait until the two camera LEDs light up. Initially they are red/orange in color; when they both turn green, the camera is "on" and working correctly (see Figure 1)

Step 5. Open "OnVIF Device Manager"

1. Open the OnVIF application by double-clicking on its icon on your desktop and its **Main Screen** opens.
2. At the **OnVIF Main Screen**, check the **Remember** checkbox (see Figure 3).
3. Enter your **Name** (admin) and **Password** (9999).

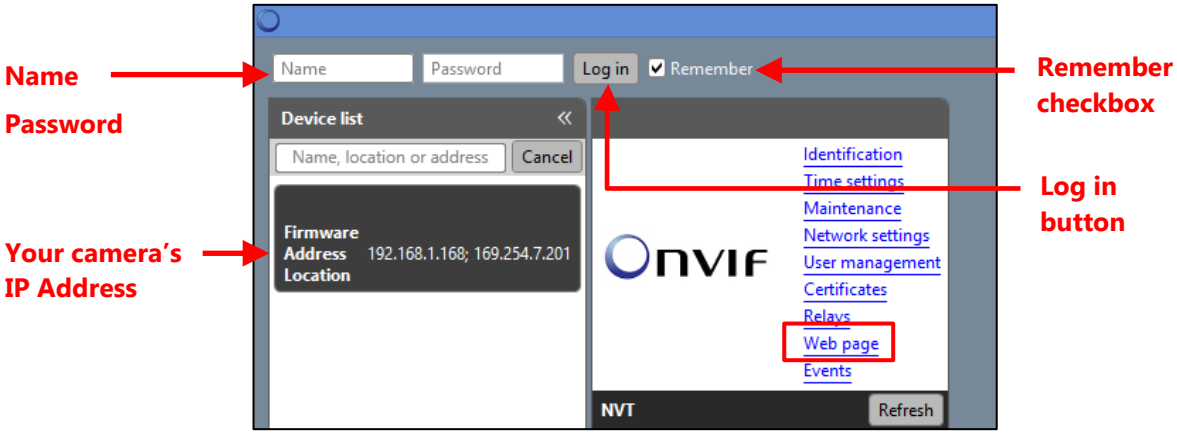

Figure 3 OnVIF Main Screen and Log In

4. Click on the **Log in** button.
5. Your camera's IP address is shown in the gray box as **Address**.

Step 6. Change Settings

1. Click on the **wrench** icon located at the top right side of the **OnVIF Main Screen** (see Figure 4). The **Application settings** dialog box opens.

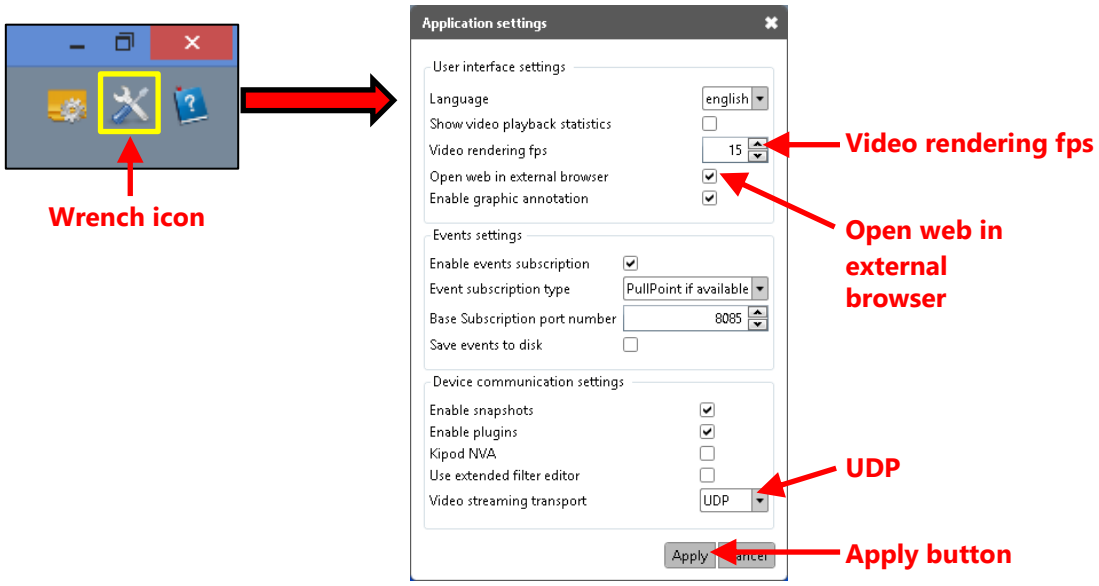

Figure 4 Wrench Icon and Application Settings Screen

2. Change the **Video rendering fps** to **15**. Click on **Open web in external browser** checkbox.
3. Change **Video streaming transport** to **UDP** from the drop-down list. Click on the **Apply** button and wait for the changes to take effect.

Step 7. Open Web Page

1. At the **OnVIF Main Screen** (see Figure 3), click on **Web page** and a black screen opens with a message that asks you to allow add-ons before the **GBOT IP Network Camera Log In Screen** can be opened.
2. Click on the **Allow** button, and the G**BOT IP Network Camera Log In Screen** opens with the same question at the bottom of the screen.
3. Click on the **Allow** button again, and you can log in (see **Step 10, Log In**). Skip Step 7 and Step 8.

NOTE:

If the GBOT IP Network Camera **Log In Screen** does not open after approximately one minute, the default Home Page setting on your browser may be causing a long timeout. Follow the instructions in **Step 7, Set Browser Default to Blank**, below, to correct this.

Step 8. Set Browser Default to Blank

1. At your Internet Explorer screen, click on the **Settings** icon located in the upper right-hand corner of the screen.

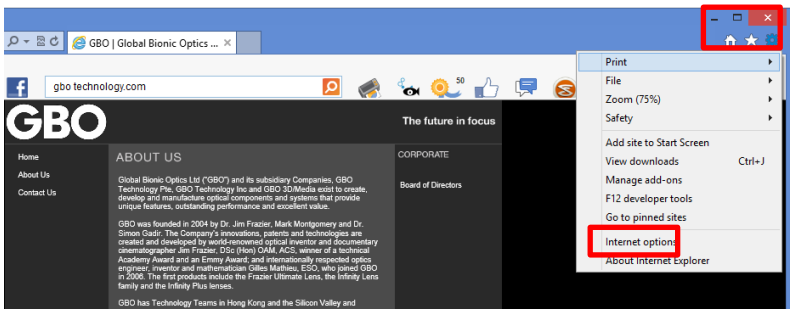

Figure 5 Internet Explorer Screen

2. Click on **Internet options** and the **Internet Options** dialog box opens.
3. Delete the text in the **Home Page** text box, and click on the **OK** button.

Step 9. Open Web Page – After Changing Browser Setting

1. Back at the **OnVIF Main Screen**, click on **Web Page** again (see Figure 3).
2. Follow the steps in **Step 7, Open Web Page** and proceed to Step 9**.**

Step 10. Log In

1. Enter the **User Name** (**admin**) and **Password** (**9999**), and then click on the **Submit** button (see Figure 7).
2. After successful login, a live video from the camera starts streaming in the **Live Video** section of the **Web Browser GUI Screen** (see Figure 8).

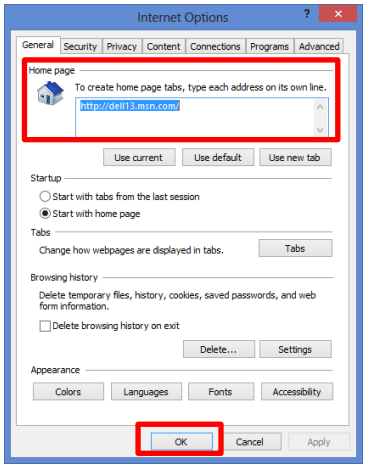

Figure 6 Internet Options

Figure 7 GBOT IP Network Camera Log In Screen

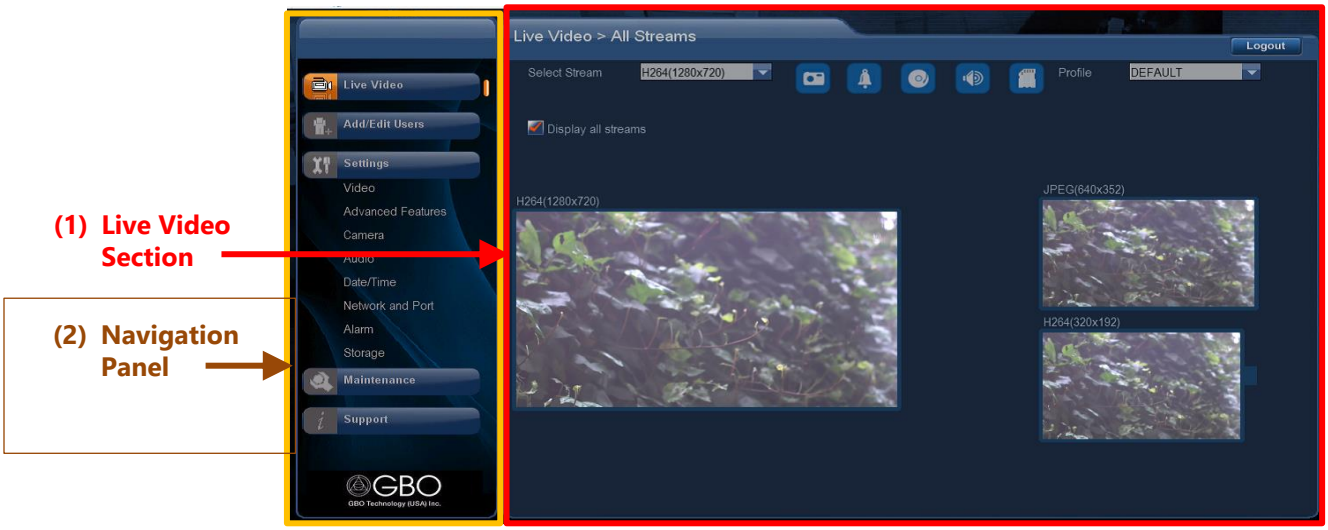

Figure 8 Web Browser GUI Screen (Live Video Screen)

CAUTION:

If your Browser screen size is not set to 100%, the bottom of some buttons may be cut off. Follow the instructions in **Step 11, Set Browser Size,** to set your Browser to the correct size.

Step 11. Set Browser Size

1. At the Internet Explorer screen, click on the **Settings** icon located in the upper right-hand corner of the screen.
2. Select **Zoom (100%)** from the drop-down menu, and then select **100%** from the second drop-down menu (see Figure 9). Your Browser window will now be the correct size.

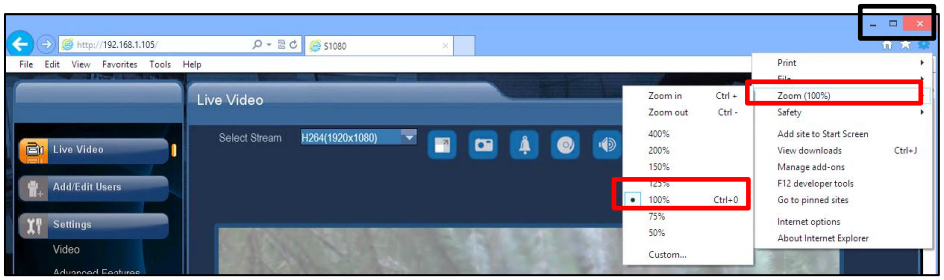

Figure 9 Set Browser Window Size

2.2 Standalone POE Switch Installation

This installation requires the camera and your PC to be connected to a standalone POE switch via two Ethernet cables. It uses the **OnVIF Device Manager** application to interface with the camera's software.

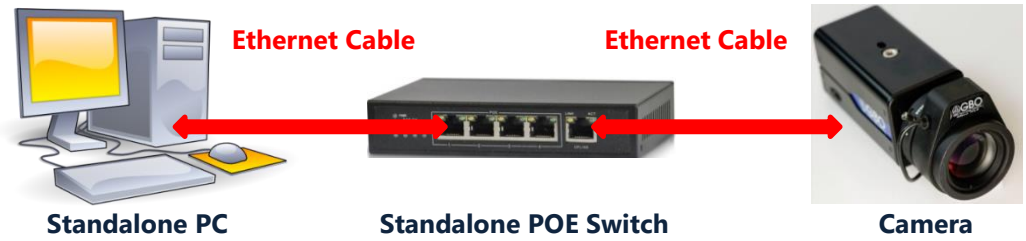

Figure 10 PC to Standalone POE Switch to Camera

Step 1. Connect PC to POE Switch

Using an Ethernet cable, connect one end to the POE switch and the other to your PC (see Figure 10).

Step 2. Power-On PC

First, power-on the PC to ensure that the PC's Ethernet interface is configured to use DHCP to automatically obtain an IP address. In this case, because there is no DHCP server running on the network, the PC will obtain an Auto-IP address in the 169.254.0.0 class B subnet. See **Section 2.4, Use DCHP to Obtain an IP Address Automatically,** for detailed information on required PC settings.

Step 3. Connect Camera to Standalone POE Switch

1. Using an Ethernet cable, connect one end of the cable to the LAN/POE slot in the back of the camera and the other end to the POE switch (see Figure 11). The POE switch provides DC power to the camera so that the camera's DC power cable is not needed.

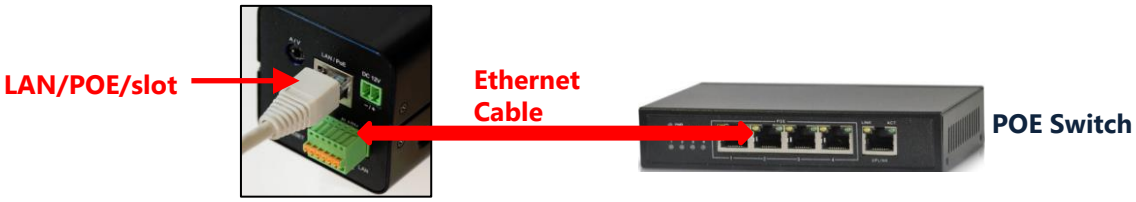

Figure 11 Back of Camera and POE Switch

2. Wait until the two camera LEDs light up. Initially they are red/orange in color; when they both turn green, the camera is "on" and working correctly (see Figure 1).

Step 4. Use "OnVIF Device Manager"

Follow **Steps 4-10** of **Section 2.1, Camera Connected Directly to a Personal Computer**.

2.3 UPNP- and DHCP-Enabled Network Installation

The GBOT IP Network Camera is designed to be used on an IP network and needs an IP address. Most networks have a DHCP server that automatically assigns an IP address to a connected device.

Step 1. Connect Camera(s) to PC Using Ethernet Cable(s) and POE Switch

1. Using a standard Ethernet cable, connect the power-over-Ethernet (POE) switch to your PC.
2. Using standard Ethernet cable(s) connect the POE switch to the camera(s) through the LAN/POE receptacle(s) located on the back of the camera(s).

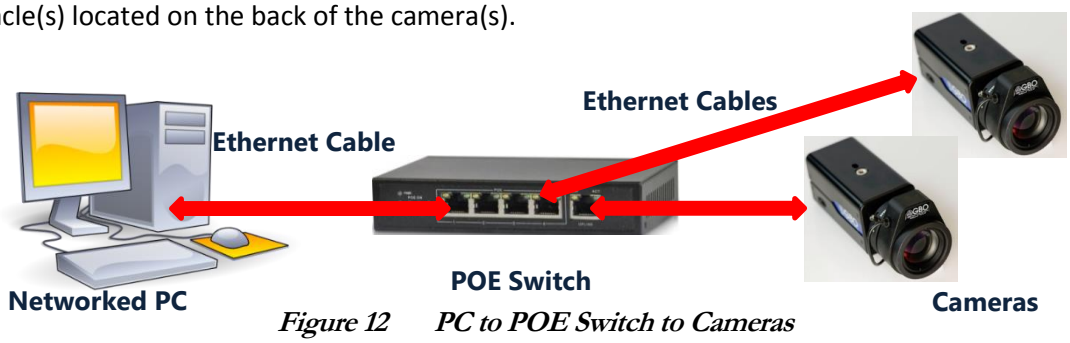

Figure 12 PC to POE Switch to Cameras

Step 2. Power On Camera Through POE

The camera is powered-up through the POE 802.3af-enabled network switch. (If POE support is **not** available, an external 12V DC power supply is required. See **Step 3, Power On Camera with DC Power Supply**, in **Section 2.1, Camera Connected Directly to a Personal Computer**.)

Step 3. Starting the Web Browser GUI Using UPnP

By default, the GBOT S1080 IP Network Camera has the **User Plug and Play** (UPnP) functionality enabled (see that the **Enable UPNP** checkbox is checked in the **Network and Port Screen** (see Figure 25**)**.

1. To start the **Web Browser GUI**, browse to the PC's **Network** dialog box. Under **Other Devices,** double-click the **GBO_DD:EE:FF i**con, where DD:EE:FF represents the last three bytes of the camera's media access control (MAC) address.

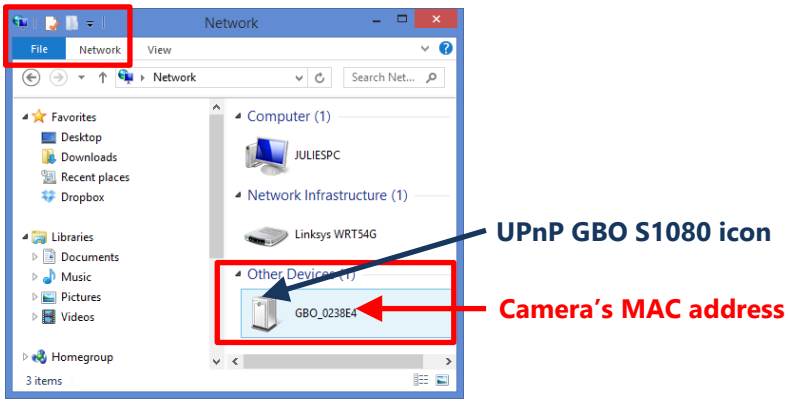

Figure 13 UPnP Icon for GBOT IP Network Camera

2. Internet Explorer needs the user's permission to run the camera Web Browser GUI. As the three dialog boxes display, select first **Install**, then select **Install** again, and then **Allow**, to proceed.

Step 4. Log In via Web Browser GUI

1. The **GBOT IP Network Camera Log In** screen displays when the connection to the GBOT S1080 IP Network Camera has been successful. Enter the **User Name** (**admin**) and **Password** (**9999**), and then click on the **Submit** button (see Figure 7).
2. After successful installation and login, a live video from the camera starts streaming in the **Live Video** section of the **Web Browser GUI Screen**, which has two sections: (1) the **Live Video Section**, and (2) the **Navigation Panel** (see Figure 8).

2.4 Use DCHP to Obtain an IP Address Automatically

To verify that your computer's Ethernet interface is configured to automatically obtain an IP address, follow the steps below.

1. On your desktop, right-click on the **Ethernet icon** and the **Network and Sharing Center** dialog box opens (see Figure 14). Go to step 3.

Figure 14 Ethernet Icon

2. Or, open your **Control Panel** and click first on **Network and Internet**, and when the **Network and Internet** dialog box opens, click on **Network Sharing Center**.
3. When the **Network and Sharing Center** dialog box opens, click on **Change adapter settings, and** the **Network Connections** dialog box opens.
4. Scroll down and double-click on **Internet Protocol Version 4 (TCP/IPv4)**, and the **Internet Protocol Version 4 (TCP/IPv4) Properties** dialog box opens.
5. Ensure that both **Obtain an IP address automatically** and **Obtain DNS server address automatically** radio buttons are checked.
6. Click on the **OK** button to close the dialog box.

3.0 WEB BROWSER GUI SCREEN

3.1 Select Stream(s) to View

The **Live Video** screen is the default **Web Browser GUI Screen** and displays when the software is opened. Three stream selections are available for you to view, either singly, from the drop-down list, or at the same time. The **Stream Type** must first be selected at the **Settings → Video Screen** (see Figure 18) and the **Display all streams** check box must be enabled.

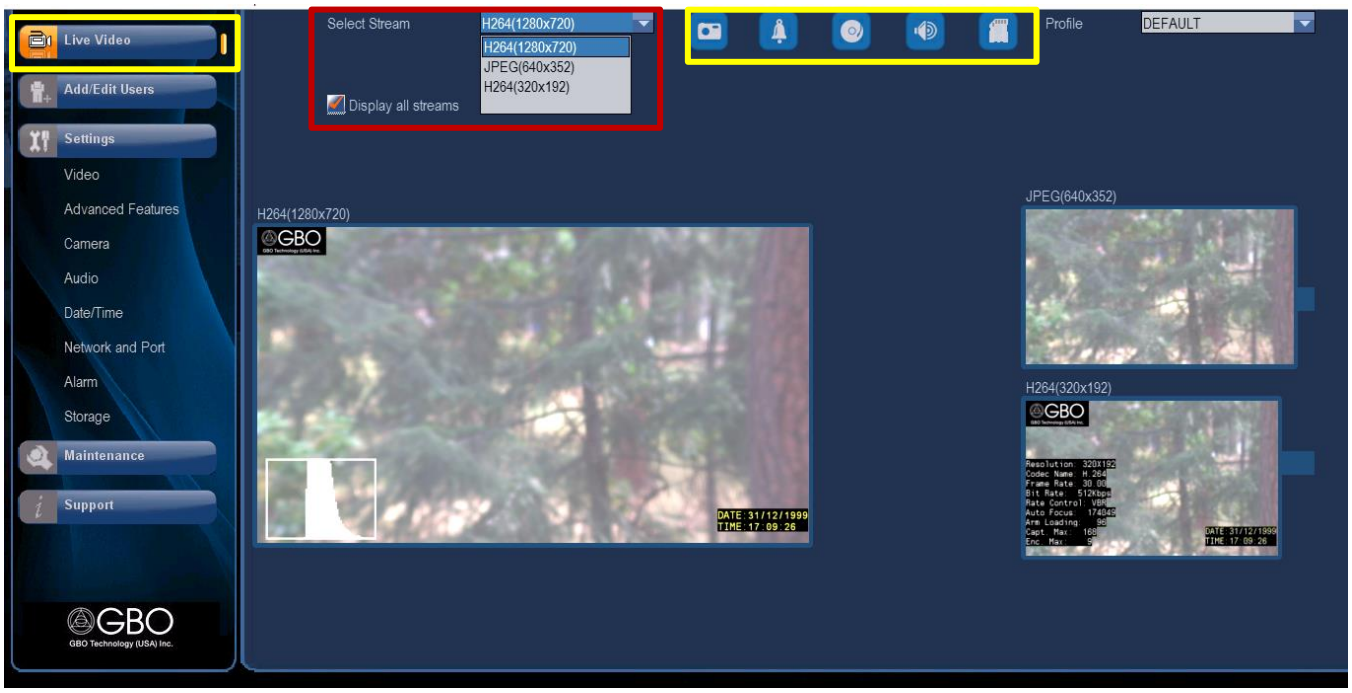

Figure 15 Live Video Screen

3.2 Icons

Click on any of the icons to perform routine tasks. Before they are operational, the icons have to be enabled and some conditions have to be preset.

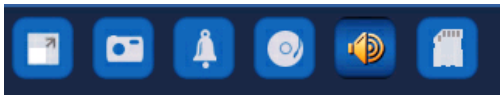

Figure 16 Live Video Screen Icons

1. **1X Display Icon:** Click on the **1X Display** icon to expand the streaming video to the whole screen. A scroll bar on the screen allows the user to move up and down the screen. Click on the **Close 1X Mode** button

to close.

2. **Snapshot Icon:** Click on the **Snapshot** icon to capture and store the first resolution JPEG image of whatever the camera is "seeing" right now.

3. **Alarm Status Icon:** The **Alarm Status** icon has to be enabled from the **Settings →Alarm** screen, and an alarm trigger must be selected, i.e., **Motion Detected**, **Ethernet Lost**, or **Audio Alarm** (see **Section 11.0, Alarm**).

When any of the preset conditions are met, the alarm is triggered and the alarm icon changes from inactive to activate. The alarm icon changes color from white to **orange** to give the user a visual signal that the alarm state has changed.

4. **Record Status Icon:** The **Record Status** icon indicates whether the camera is actively recording, or if it is in an inactive state. Recording may be initiated for a specified period of time or for whenever an alarm is triggered. The conditions are set at the **Settings →Alarm** or **Settings →Storage** screens (see **Sections 11.0, Alarm** and **12.0, Storage**).

5. **Audio Toggle Icon:** Click on the **Audio** icon to toggle the sound at the camera location from **OFF** to **ON**. A pre-selected **Warning** signal may be initiated. The conditions are set at the **Audio Setting** screen (see **Section 8.0, Audio)**.

6. **SD Card Explorer Icon:** This icon is only available if an SD card has been previously inserted into the SD receptacle in the camera. Otherwise, it is missing.

7. **Logout Button:** Click on the **Logout** button to close the **Web Browser GUI** screen.

4.0 ADD/EDIT USERS SCREEN

AT the **Live Video Screen** (see Figure 15), click on **Add/Edit Users** and the **Add/Edit Users Screen** opens. You can add users and/or edit user names and password. You may also wish to change your password as soon as possible since the default password is the same for all cameras and is factory set.

Click on the **OK** button to save your selections and wait for the changes to take effect.

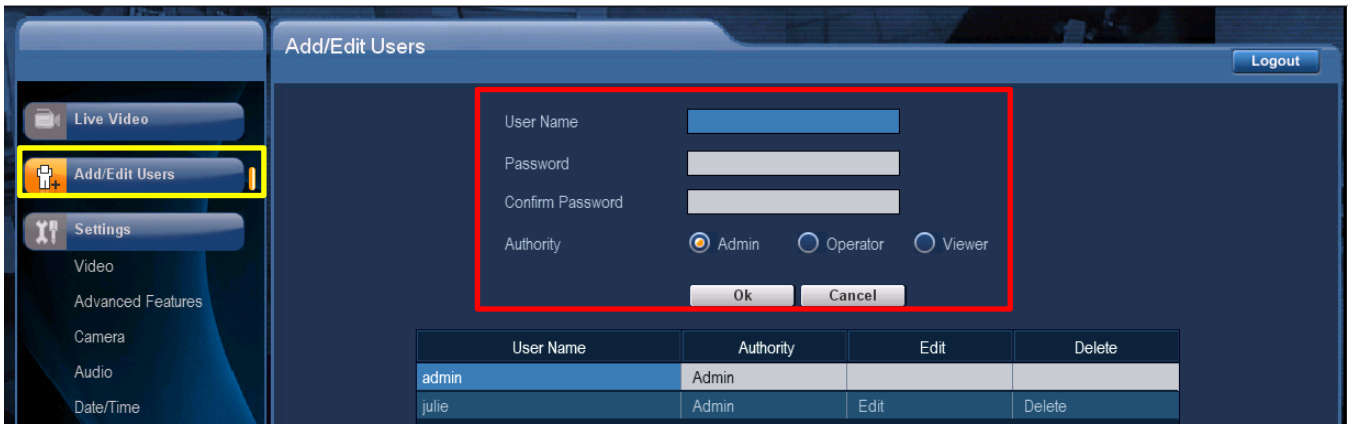

Figure 17 Add/Edit Users Screen

5.0 VIDEO SETTINGS

At the **Live Video Screen** (see Figure 15), click on **Settings → Video** and the **Video Screen** opens. Here you make selections to determine how the live streaming video will appear. These selections are described in Table 1, below.

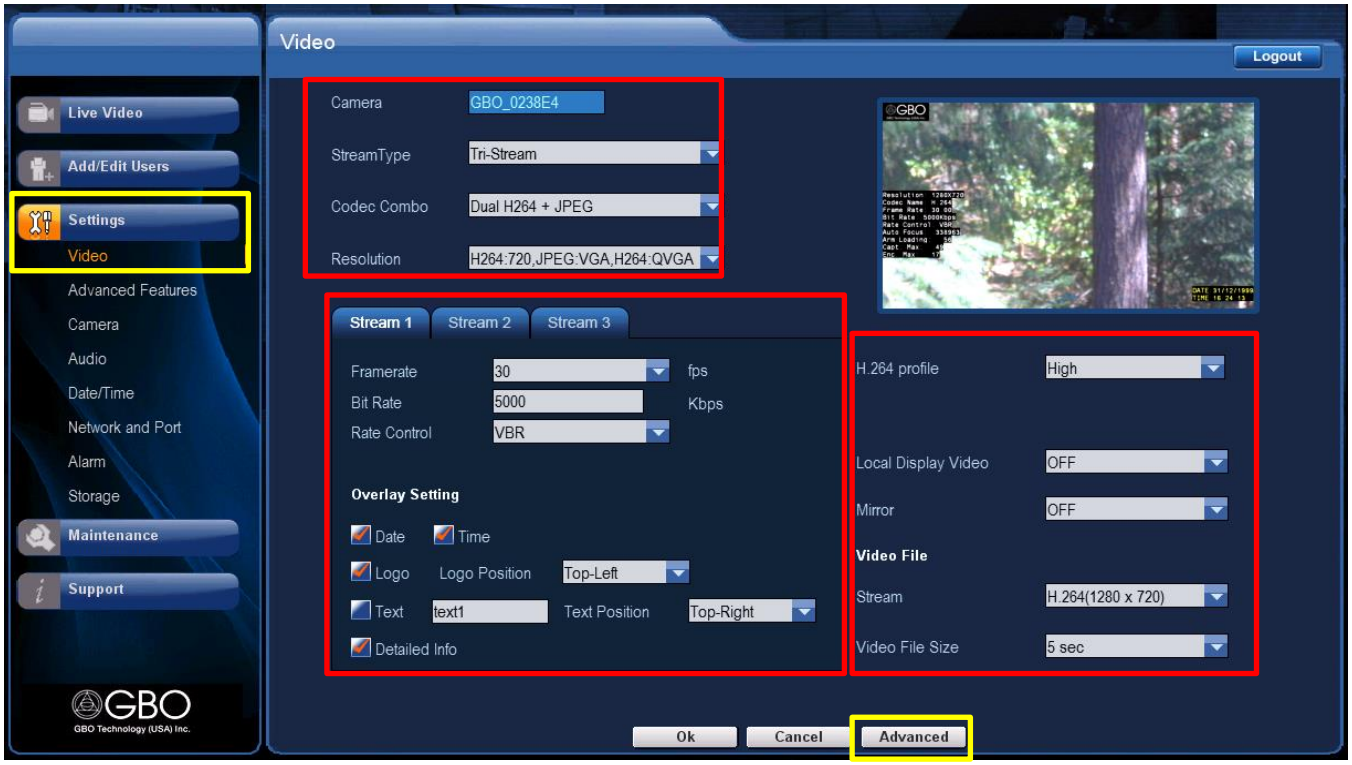

Figure 18 Video Screen

Table 1 Video Screen Selections

Selection	Action
1. Camera	Shows you the camera that is currently being used.
2. Stream Type	Select: Single, Dual, Tri-Stream
3. Codec Combo	1) **Single:** H.264, MPEG4, or Megapixel JPEG
	2) **Dual:** H.264 + JPEG, MPEG4 + JPEG, Dual H.264, Dual MPEG4, or H.264 + MPEG4
	3) **Tri-Stream:** Dual H.264 + JPEG, Dual MPEG4 + JPEG
4. Resolution*	H.264, MPEG, JPEG (Various settings, depending on **Stream Type** and **Codec Combo** settings.)
5. Stream Screens	1) **Frame Rate**[+]. Options include 1, 8, 15, 24, or 30 frames per second (fps).
	2) **Bit Rate**[‡]**.** Values range from 64 to 12000 Kpbs for Stream 1, and 64 to 8000Kpbs for Stream 3. Stream 2 does not have a bit rate field
	3) **Rate Control:** Off, VBR, or CBR (see *GBOT S1080 User Manual* for definitions)
	4) **Quality Factor** (only Stream 2 has this field)*:* Enter a value up to thirty.

Selection	Action
6. Overlay Settings	1) **Date.** Click on **Enable Date** check box to activate the date function.
	2) **Time.** Click on **Enable Time** checkbox to activate the time function.
	3) **Logo.** Click on **Enable Logo** check box to activate the logo function. Select a **position** for the logo: top-left or top-right.
	4) **Text.** Click on **Enable Text** check box to activate the text function. This enables insertion of a pre-selected text onto the live video image. Enter the **text** into the field, and select a **position**: top-right or top-left.
	5) **Detailed info.** Select to insert camera information onto the live video screen.
7. H.264 profile	Select: High, Base, or Main. Base is the least CPU intensive setting, and High is the most CPU intensive setting.
8. Local Display	Select: NTSC, PAL, or off.
9. Mirror	Select: vertical, horizontal, both, or off.
10. Video File Stream	Select which stream is to be saved: H.264(1280x720) or H.264(32x192).
11. Video Size	Select the length of the AVI file to be saved for either a scheduled recording or an Alarm Trigger: 5 or 10 seconds.

***Resolution** is image quality and is measured in megapixels. Pixels are the tiny light capturing elements on the camera's sensor. The higher the number of pixels (or megapixels), the higher is the resolution of the camera.

[+]The **frame rate** is the number of frames or images that are transmitted over the network.

[‡]The **bit rate** is the rate at which bits are transferred from one location to another. In other words, it measures how much data is transmitted in a given amount of time. A higher bit rate gives a better quality image. Bit rate is commonly measured in bits per second (bps), kilobits per second (Kbps), or megabits per second (Mbps).

Click on the **OK** button to save your selections and wait for the changes to take effect.

5.1 Advanced Video Settings

Click on the **Advanced** button on the **Video Screen** and the **Advanced Video Screen** opens. Here you can make additional selections to control the live streaming video. These are advanced settings and are described in the *GBOT S1080 User's Manual*. Setting a **Region of Interest,** where faces can be detected or masked, is described below.

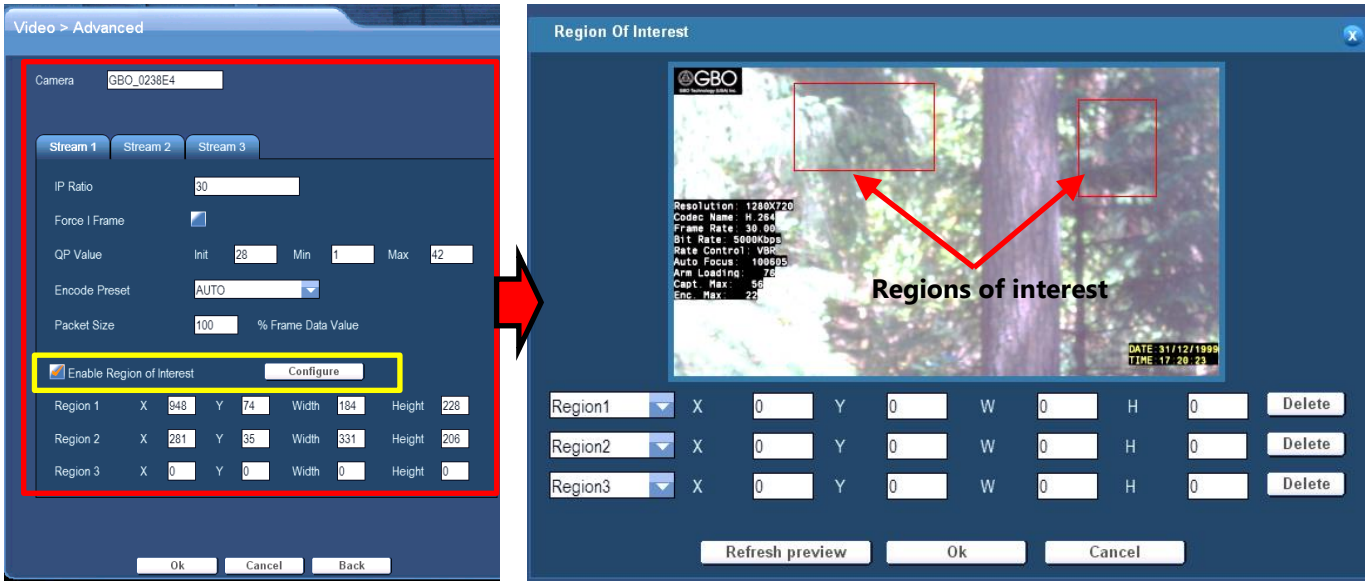

Figure 19 Advanced Video and Region of Interest Screens

5.2 Face Detection - Region of Interest

1. Click on the **Enable Region of Interest** (ROI) check box and a **Configure Table** (see Figure 19) opens on top of the screen.
2. Click on the **Configure** button and the **Region of Interest** screen opens. Drag the mouse to draw the Region. Clicking on the **Clear** button removes the region.
3. Optionally, the user can enter the value directly into the X, Y, W and H text boxes. X and Y are the starting coordinates of the region, and W and H are the width and height of the region. The entire region is selected by default.
4. Click on the **OK** button to save your selections and wait for the changes to take effect.

6.0 ADVANCED FEATURES SCREEN

Live Video Screen (see Figure 15), click on **Settings → Advanced Features**, and the **Advanced Features** screen opens. At this screen you can configure how you want motion and faces to be detected. You can also set privacy areas where a black box blanks out specified areas on the live video.

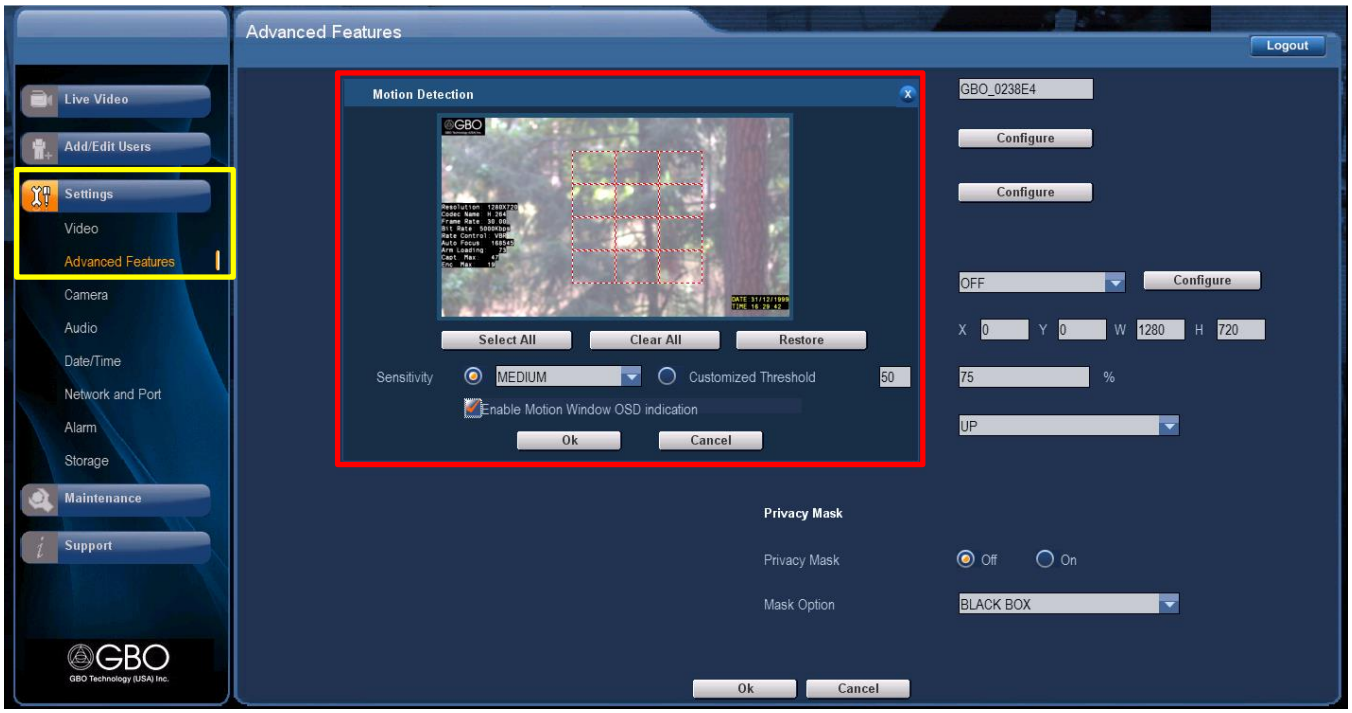

Figure 20 Advanced Features Screen

Configure these features the same way you set the **ROI** (see **Section 5.2, Face Detection - Region of Interest**):

1. Click on the **Configure** button.
2. Click on **Enable Motion Window OSD indication** (on-screen display) check box. You will receive visual feedback when motion is detected (flashing red boxes on the screen). The **Motion Detection Alarm Trigger** must first be enabled at the **Settings → Alarm** screen (see **Section 11.0, Alarm**, for more detailed information).
3. Set the parameters when the screen opens and select areas by clicking on them with the mouse.
4. Click on the **OK** button to save your selections and wait for the changes to take effect.

7.0 CAMERA

At the **Live Video Screen** (see Figure 15), click on **Settings → Camera**, and the **Camera** screen opens. At this screen you can set camera settings. These selections are described in Table 2, below. Refer to the *Definitions* section of the *GBOT S1080 User's Manual* for more information on the parameters set at this screen.

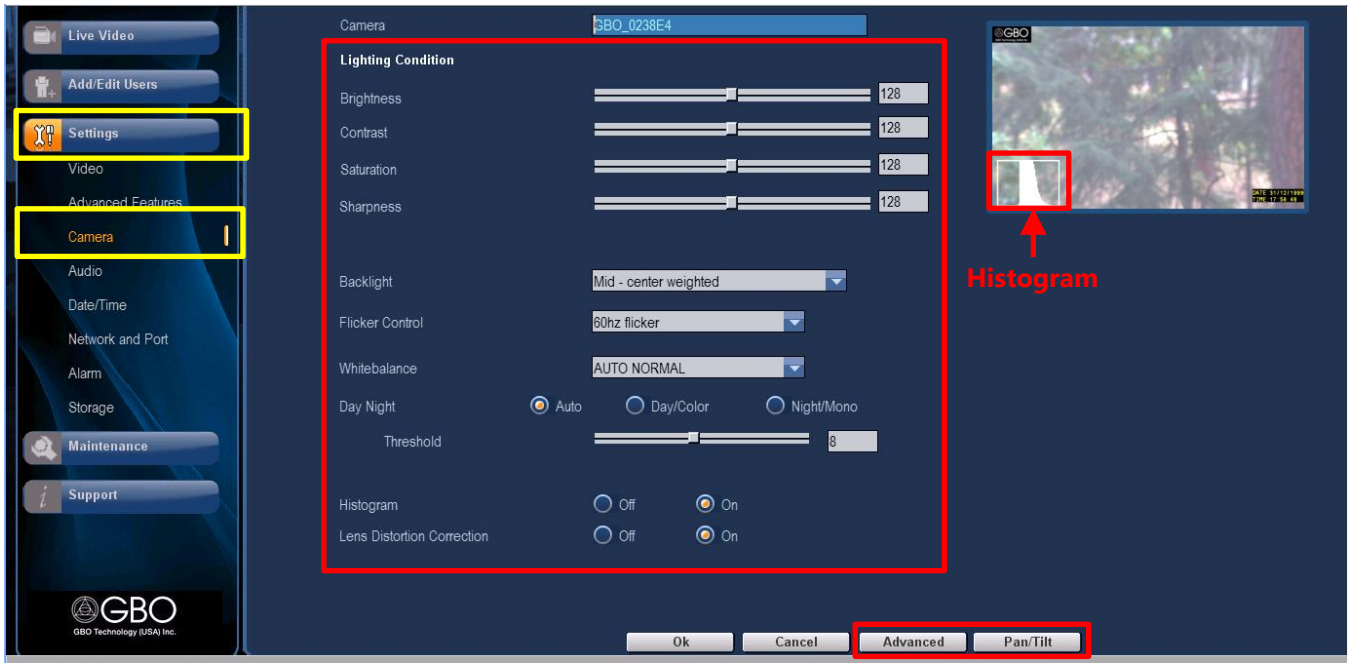

Figure 21 Camera Settings Screen

Table 2 Camera Settings

Selection	Action
1. Lighting Condition:	
a. Brightness	Use the slider to specify the desired brightness level from 1 to 255. A higher value of the brightness gives a brighter scene.
b. Contrast	Use the slider to specify the desired contrast level from 1 to 255.
c. Saturation	Use the slider to specify the desired saturation level from 1 to 255. A higher value of the saturation results in a more vivid scene.
d. Sharpness	Use the slider to specify the desired sharpness level from 1 to 255.
2. Backlight	Specify: Min: Whole image average, Mid: Center weighted Max: Spot
3. Flicker Control	Specify the desired frequency of flicker control. In PAL countries, use a multiple of 50; in NTSC countries, use a multiple of 60.
4. White Balance	Specify the white balance mode.
5. Day/Night	Specify one of the following mode options: Auto, Day/Color), or Night/ Mono.
Threshold	Use the slider to specify threshold value from 1 to 16.

Selection	Action
6. **Histogram**	Enable/disable histogram on the primary video stream: ON or OFF (see an example in Figure 21).
7. **Lens Distortion Correction**	Enable/disable lens distortion: ON or OFF.

Click on the **OK** button to save your selections and wait for the changes to take effect.

7.1 Camera – Advanced Settings

Click on the **Advanced** button on the **Camera Screen** and the **Advanced Video Screen** opens. Here you can make additional selections to the camera. These advanced settings are described in the *GBOT S1080 User's Manual*.

7.2 Camera – Pan/Tilt

At the **Settings Camera Screen** (see Figure 21), click on the **Pan/Tilt Button**, located at the bottom-right side of the screen, and the **Camera > Pan/Tilt Screen** opens. At this screen you can set pan and tilt conditions. These selections are described in Table 3, below.

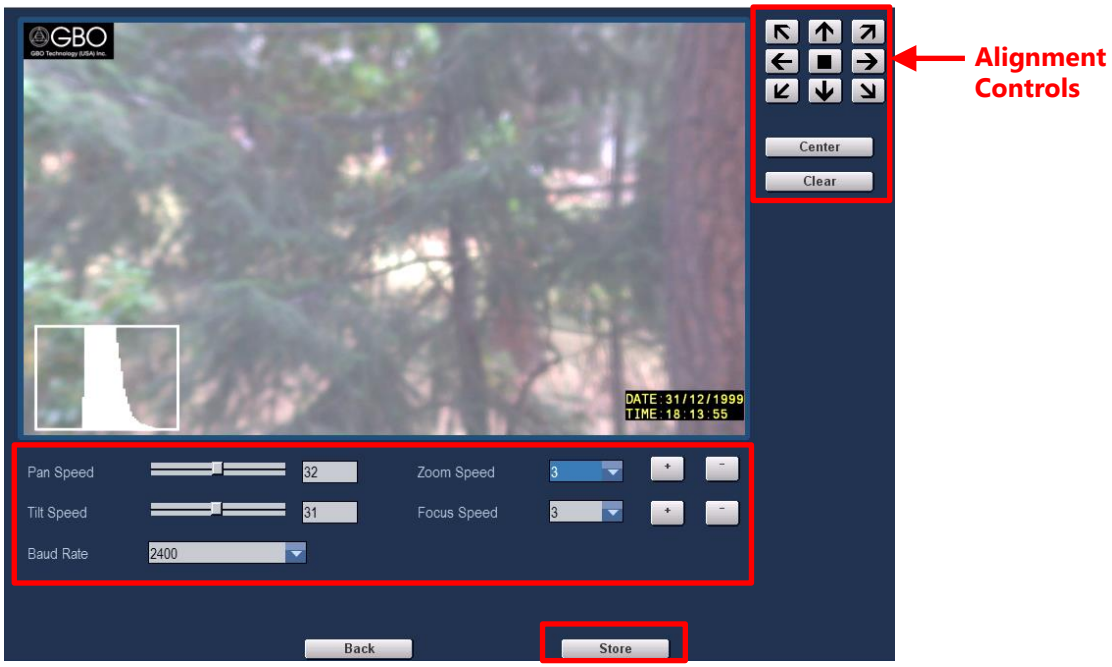

Figure 22 Camera > Pan/Tilt Screen

Table 3 Pan/Tilt Settings

Selection	Action
1. **Pan Speed**	Use the slider to specify the desired pan speed from 0 to 64; the default is 32. A higher value gives a faster pan speed.
2. **Tilt Speed**	Use the slider to specify the desired tilt speed from 0 to 63; the default is 32. A higher value gives a faster tilt speed.
3. **Baud Rate**	Specify the baud rate from the drop-down list.
4. **Zoom Speed**	Specify the zoom speed from 0 to 3.

Selection	Action
5. Focus Speed	Specify the focus speed from 0 to 3.

Click on the **Store** button to save your selections and wait for the changes to take effect.

7.3 Alignment Controls

Click first on the **Center** button, and then click on the **Store** button to center the camera on the desired location. Or, use the directional arrows to move the camera in the direction indicated, and then click on the **Store** button to save the camera position.

Click on the **Clear** button to clear all position settings. Click on the **Store** button to save position changes. Click on the **Back** button to return to the **Camera Settings Screen**.

8.0 AUDIO

At the **Live Video Screen** (see Figure 15), click on **Settings → Audio**, and the **Audio** screen opens. At this screen you can set advanced audio conditions. Only the primary settings are described in Table 4, below. Refer to the *GBOT S1080 User's Manual* for more information on the parameters set at this screen.

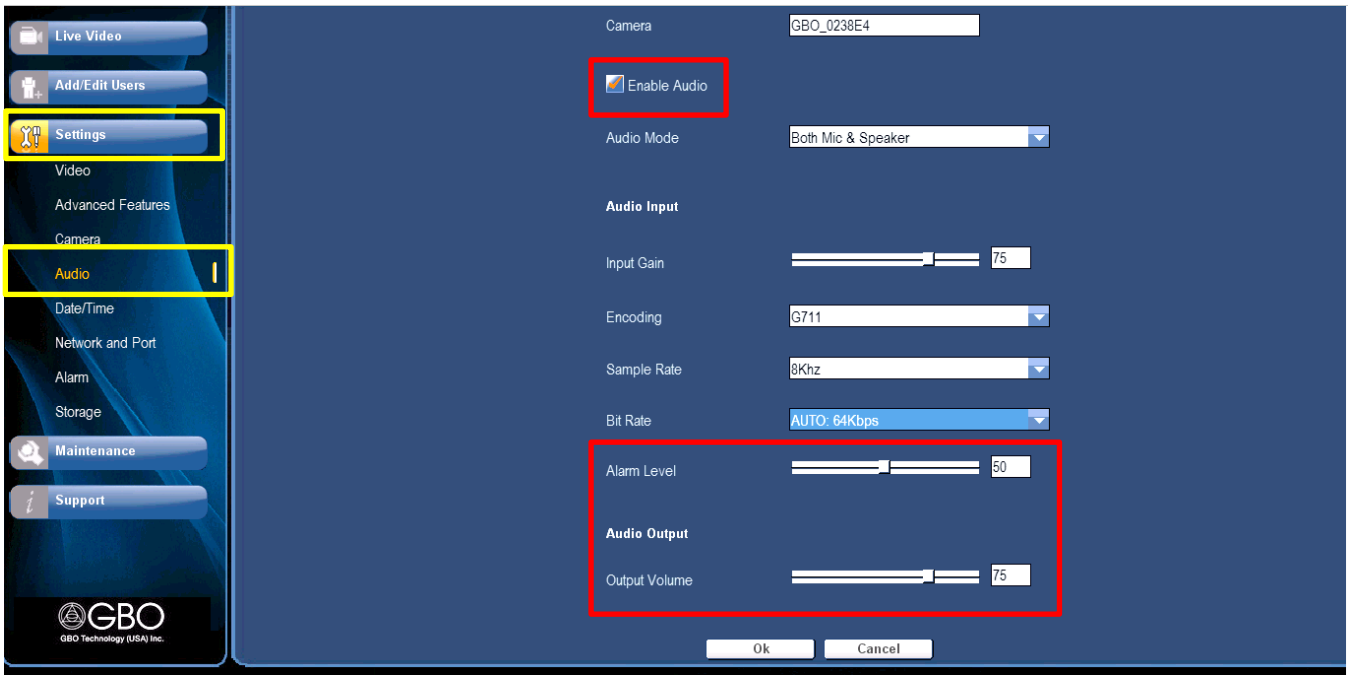

Figure 23 Audio Setting Screen

Table 4 Audio Settings

Selection	Action
1. Enable Audio	Click this checkbox to enable the functionality. The **Audio Mode** drop-down list opens. Specify one of the following audio modes: MIC Only, Speaker Only, or MIC and Speaker.
2. Alarm Level	Use the slider to specify the **Audio Level** that must be captured by the camera in order to trigger an audio alarm. The **Enable Alarm** check box must be checked before the alarm level can be set (see **Section 11.0, Alarm**).

Selection	Action
3. **Audio Output Volume**	Using the slider, specify the audio playback volume from 1-100.

Click on the **Ok** button to save any changes and wait for the changes to take effect.

9.0 DATE/TIME

At the **Live Video Screen** (see Figure 15), click on **Settings →Date/Time**, and the **Date/Time** screen opens. At this screen you can set the time in three ways: manually, synchronized with your computer time, or with your SNTP server. In order for the SNTP server synchronization to automatically set the date and time on the camera, a valid functioning Primary Name Server (PNS) address (one that is capable of translating the IP address) must be entered into the **SNTP Sever** field. Depending on the software version installed on your camera, you can enter the **SNTP server** address at either the **Date/Time Screen** or the **Network and Port Screen** (see Figure 25).

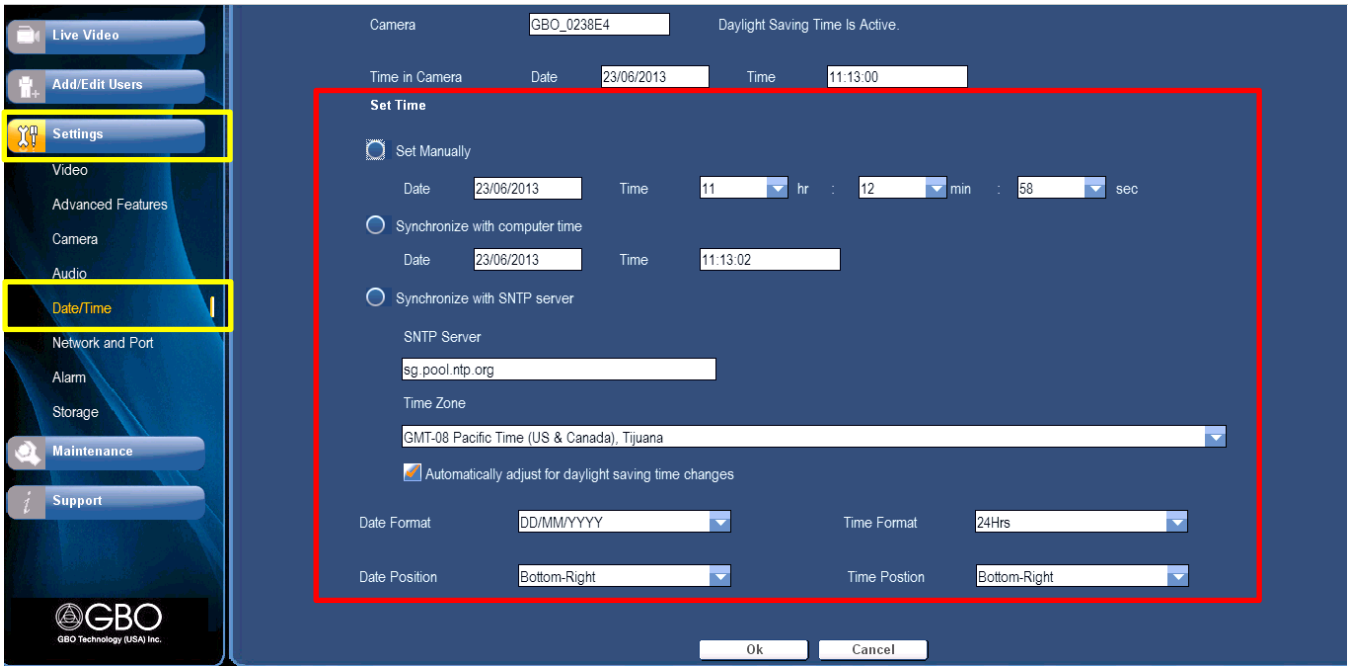

Figure 24 Date/Time Screen

Table 5 Date and Time Settings

Selection	Action
1. **Set Manually**	1) Select this option to enter the **Date** and **Time** in hours, minutes, and seconds in the appropriate fields. 2) Use the drop-down list to select the correct **Time Zone** for your location. 3) Click on the **Automatically adjust for daylight saving time changes** checkbox. 4) Click on the Ok button to save the changes and wait for them to take effect.
2. **Synchronize with Computer Time**	1) Select this option and click on the **Automatically adjust for daylight saving time changes** checkbox. 2) Click on the **Ok** button to save changes and wait for them to take effect.

Selection	Action
3. Synchronize with SNTP Server	1) Select this option to use the SNTP Server as the time source for the camera. 2) Enter the address of your SNTP Server into the SNTP Server field. Obtain the address from your IT personnel. 3) Click on the **Automatically adjust for daylight saving time changes** checkbox. 4) Click on the **Ok** button to save the changes and wait for them to take effect. The time and date are automatically synched with your SNTP server.
4. Date Position and Format	Set where you want the date to be located on the live video screen and its format.
5. Time Position and Format	Set where you want the time to be located on the live video screen and its format.

Click on the **Ok** button to save the changes and wait for them to take effect.

10.0 NETWORK AND PORT SCREEN

At the **Live Video Screen** (see Figure 15), click on **Settings → Network and Port**, and the **Network and Port Screen** opens.

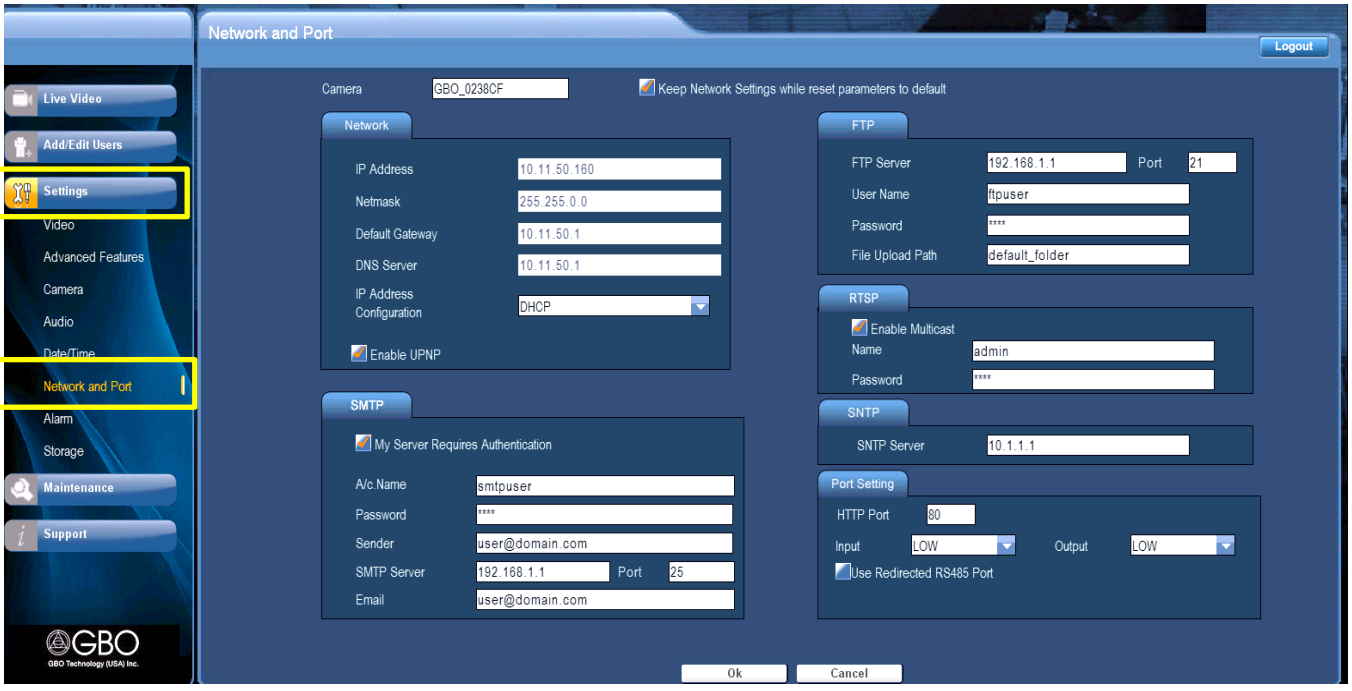

Figure 25 Network and Port Screen

At this screen you can:

5. Enter **SMTP**, **FTP** and **SNTP Server** information at their corresponding tabs. Consult a qualified IT/MIS administrator or your information.

   The **My Server Requires Authentication** checkbox is located in the SMTP tab. Click on this checkbox to enable/ disable this function.

6. View/review your **Network** settings at the Network tab.

NOTE:

The Network tab fields are **read only** for DHCP and can be edited only if **Static IP Mode** is selected.

7. Enable multicasting at the **RTSP** tab.
8. Enable user plug and play (UPNP) by clicking on **Enable UPNP** checkbox.
9. **Retain Network Settings during hard resets** by clicking **on its check**box.
10. Refer to *GBOT S1080 User's Manual* for information on **Port Setting** fields.
11. Click on the **Ok** button to save any changes and wait for the changes to take effect.

11.0 ALARM

At the **Live Video Screen** (see Figure 15), click on **Alarm**, and the **Alarm Screen** opens. The **Enable Alarm** checkbox must be checked before the other selections are available (they are grayed-out otherwise). At this screen you set how you want the alarm to be triggered and where you want the video to be saved.

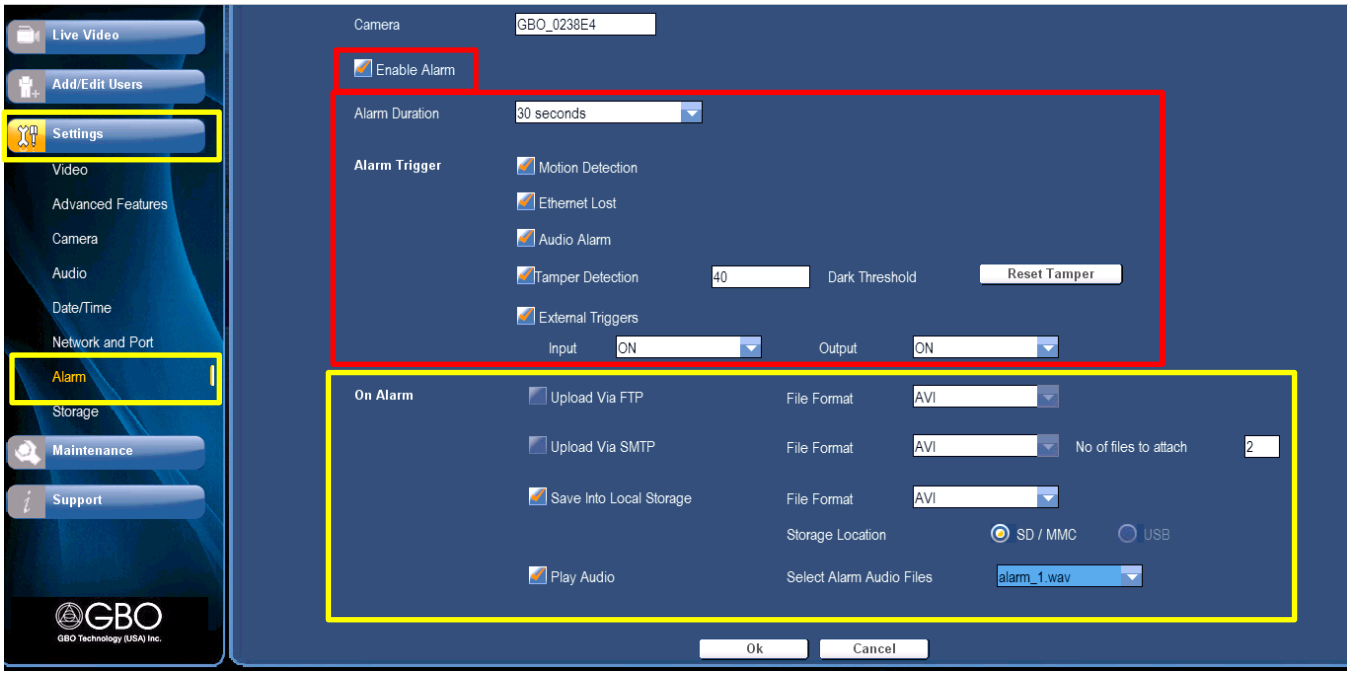

Figure 26 Alarm Screen

Table 6 Alarm Settings

Selection	Action
1) Alarm Duration	Select the duration for the alarm. This option determines/sets how long the ALARM should be ON after it is triggered
2) Alarm Trigger	Select how the alarm is to be triggered by enabling the **Alarm Trigger** checkboxes:
	1) **Motion Detection.** Triggers an alarm when motion is detected in the pre-selected sections (see **Section 5.2, Face Detection - Region of Interest**).

Selection	Action
2. Alarm Trigger	2) **Ethernet Lost.** Triggers an alarm when the network connection is lost.
	3) **Audio Alarm.** Triggers an alarm if the audio level exceeds the alarm level set in the Audio screen (see **Section 8.0, Audio**).
	4) **Tamper Detection**. Triggers an alarm if lens is out of the current reference focus, or if the scene is too dark. • **Dark Threshold**. Select a threshold for the dark scene from 20 to 100. A lower value means that the detection is triggered on a darker scene. • **Reset Tamper**. Resets the reference focus value based on the current scene. If the current focus value of the scene deviates too much from the reference value, a tamper alarm is triggered. When rebooting, the camera performs a "Reset Tamper" automatically.
	5) **External Triggers:** • **Input.** Alarm based on the level of sound triggered by external sources. • **Output.** Drives the alarm level to external sources.
3. On Alarm	Enable the **On Alarm** buttons to specify which actions trigger the alarm.
	1) **Upload via FTP.** Enable checkbox to upload a recording to FTP. • File Format. AVI or JPEG
	2) **Upload via SMTP.** Enable checkbox to send an email with a recording as an attachment. • **File Format.** AVI or JPEG • **No of files to attach.** Enter the number of images per email (max. is 20)
	3) **Save Into Local Storage.** Enable checkbox to save the recording to the SD card installed in the camera. • **File Format.** AVI or JPEG • **Storage Location.** Click on SD/MMC radio button.
	4) **Play Audio. C**heck the box to play audio via the Audio Line Out on the back of camera. • **Select Alarm Audio Files.** Select which **alarm** plays, when triggered, from the drop-down list.

NOTES:

1. The FTP, SMTP server settings have to be configured first at the **Network and Port Screen** (see **Section 10.0, Network and Port Screen**).
2. Limit the size of outgoing video clips via email. For more information, consult a qualified IT/MIS administrator or your ISP.
3. Access is based on the SD card's speed. Use a high-speed SD card to increase the access efficiency.
4. To enable **Alarm Audio Playback**, the user needs to enable **Audio with Speaker** mode (see **Section 8.0, Audio**).
5. For H.264 and MPEG4 files, the number of files attached for SMTP is one, even though it is set for higher values. For the number of attachments, a number higher than one is valid only for JPEG streams.

Click on the **Ok** button to save any changes and wait for the changes to take effect.

12.0 STORAGE

At the **Live Video Screen** (see Figure 15), click on **Storage**, and the **Storage Screen** opens. At this screen you create a recording schedule and assign a location for the recording whenever an alarm is triggered.

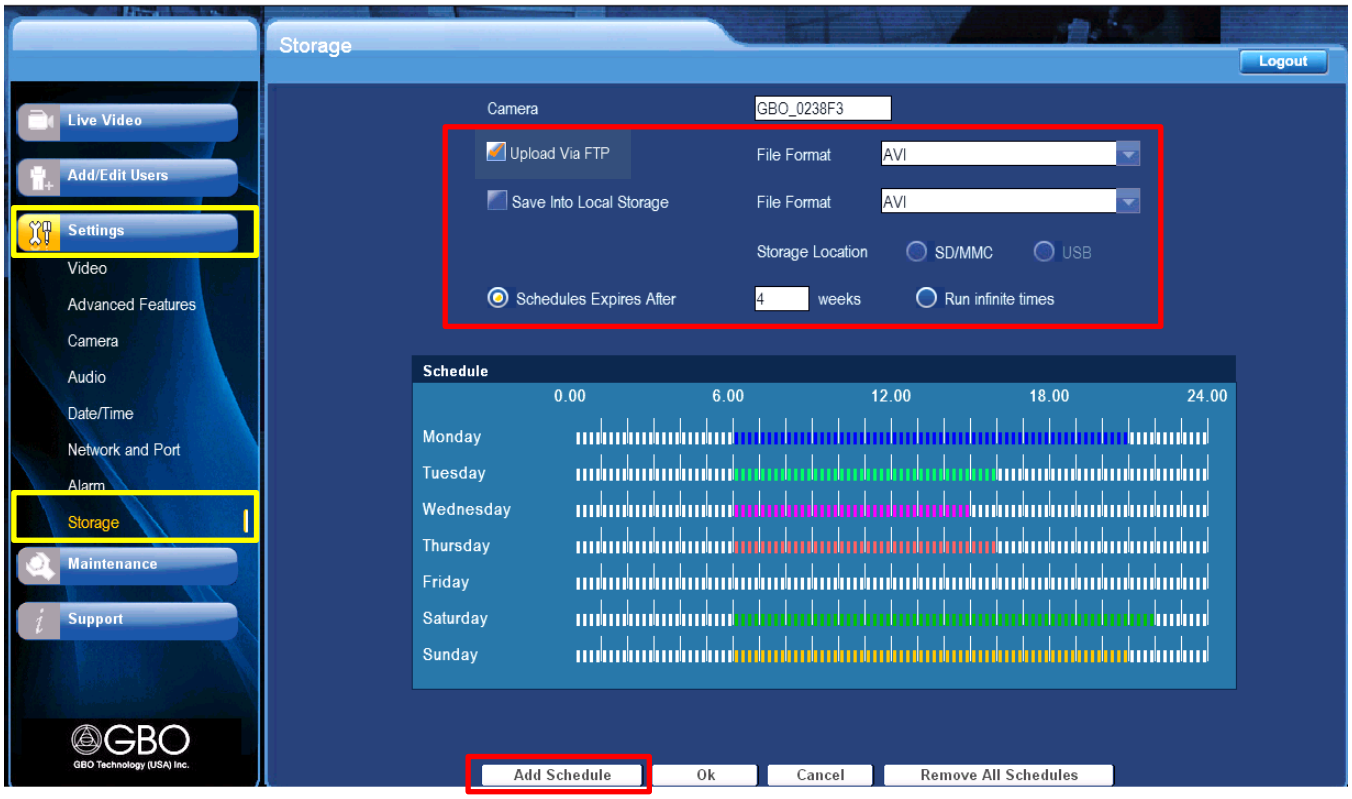

Figure 27 Storage Screen

12.1 Create a Recording Schedule

1. Click on the **Add Schedule** button, located at the bottom left-hand side of the **Storage Screen** (see Figure 27), and the **Schedule Selection Screen** opens.

2. Click on the **Day** checkboxes and select the days from their drop-down lists.
3. Click on any of the seven weekday checkboxes and select the **From** and **To** times from the drop-down lists from 00 to 23 (hours).
4. Click on the **Ok** button for the changes to take effect. The times and days display in the **Schedule Screen** on the **Storage Screen** (see Figure 27).

12.2 Upload Files at the Storage Screen

There are two ways to upload files to the FTP server and to Local Storage, (the SD card): (1) at the **Storage Screen** (a scheduled recording) or, (2) at the **Alarm Screen** (a triggered recording). You **cannot** use both of these methods at the same time.

1. First, ensure that the time and date are correct. See **Section 9.0, Date/Time** to set your time.
2. For FTP:
   a. Enter valid FTP Parameters at the **Network and Port Screen** (see **Section 10.0, Network and Port Screen)**.
   b. Click on the **Upload Via FTP** checkbox to enable FTP functionality.
   c. Specify the supported **File Format** from the drop-down list: AVI or JPEG.
   d. Click on the **Ok** button for the changes to take effect.
3. For Local Storage, the SD Card:
   a. Click on the **Save into Local Storage** checkbox to enable it.
   b. Specify the supported file format from the drop-down list: AVI or JPEG.
   c. Click on the **SD/MMC** radio button.
   d. Click the **Ok** button for the changes to take effect.

12.3 Upload Files At the Alarm Screen

Follow the instructions in **Section 11.0, Alarm** to save files to FTP server or SD card.